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OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS ...
Applicant: Pourdeyhimi
Atty Docket: 297/180

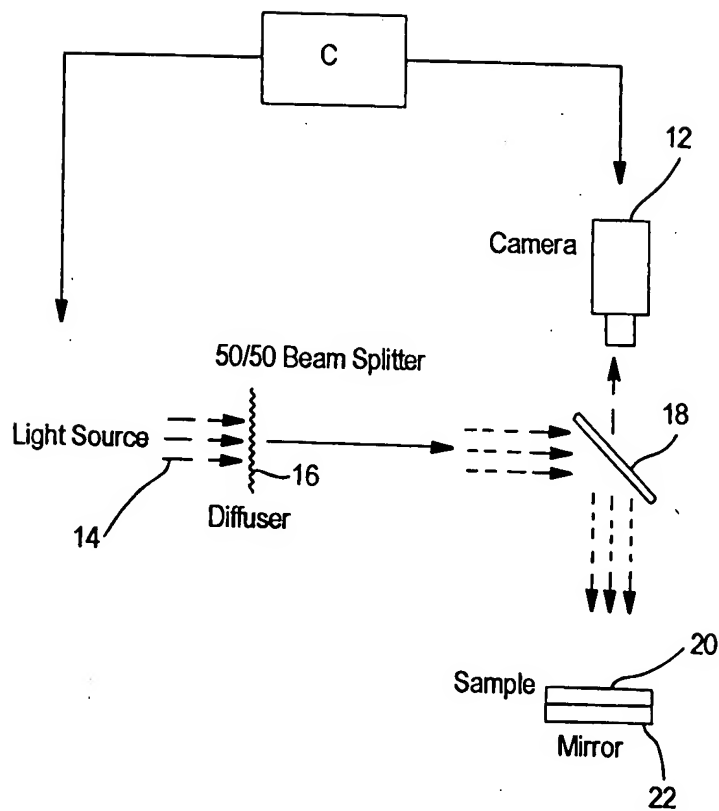


FIG. 1A

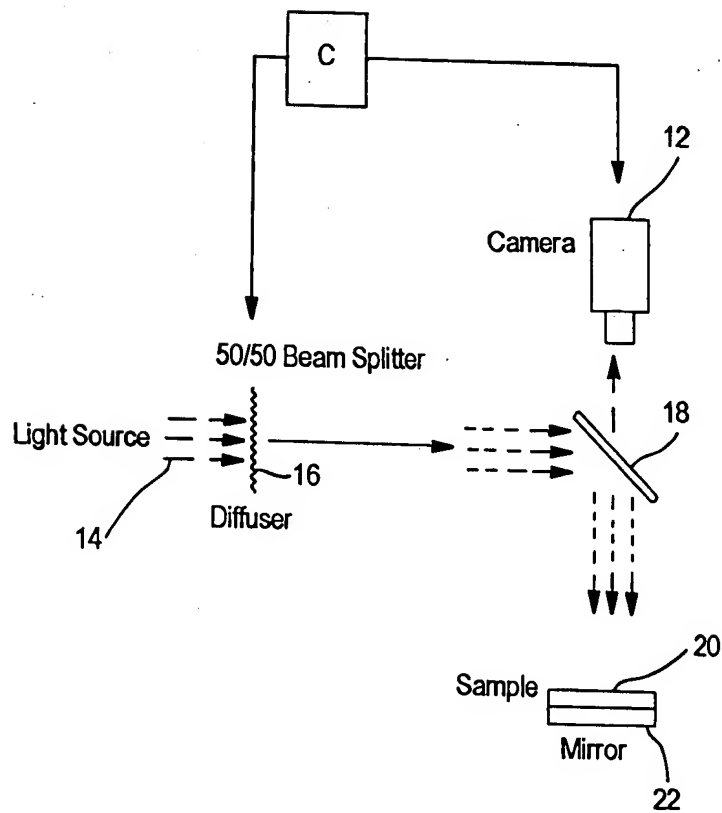


FIG. 1B

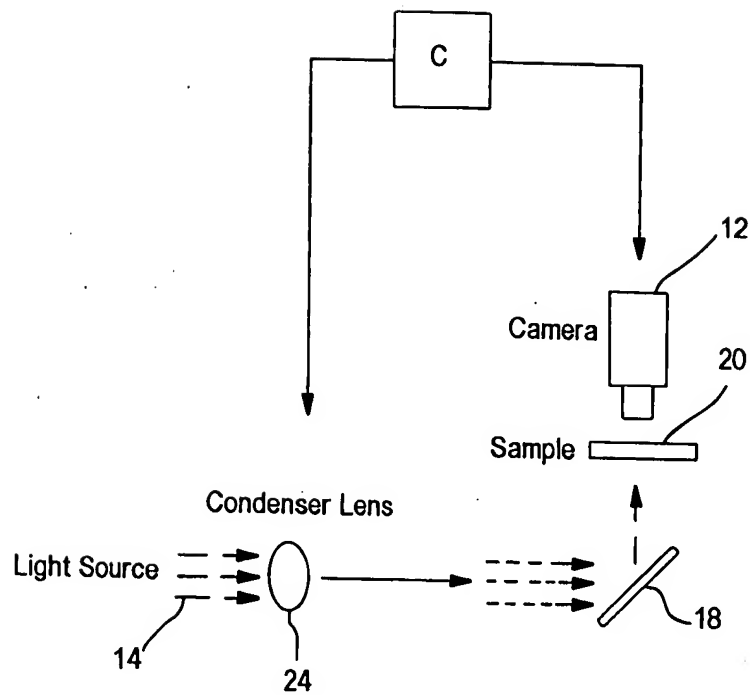


FIG. 1C

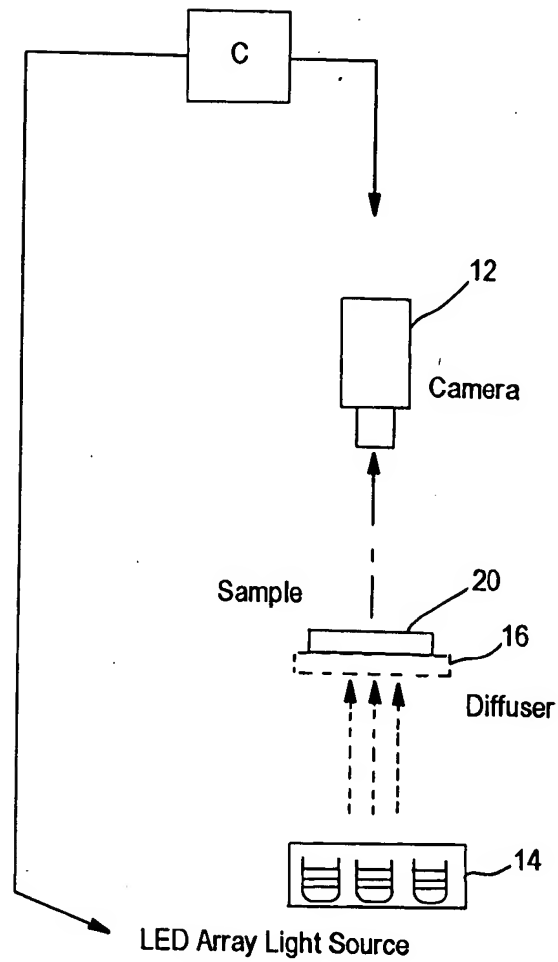


FIG. 1D

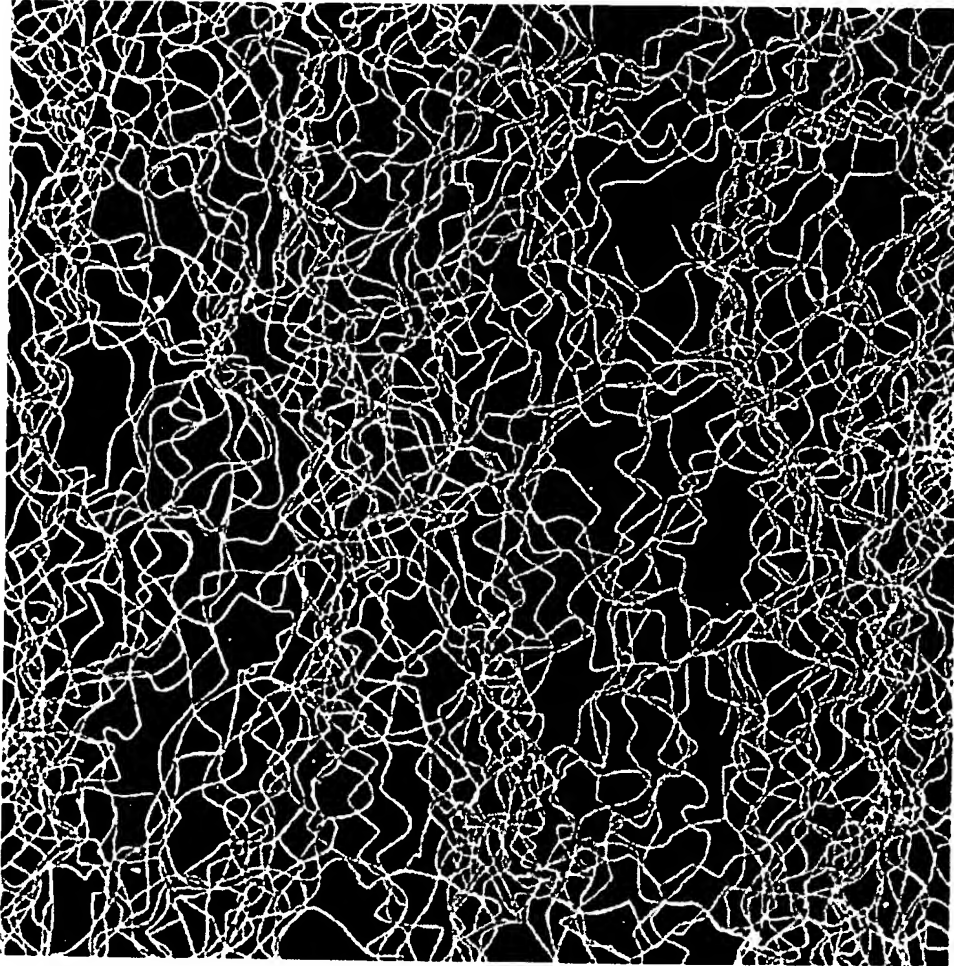


FIG. 2

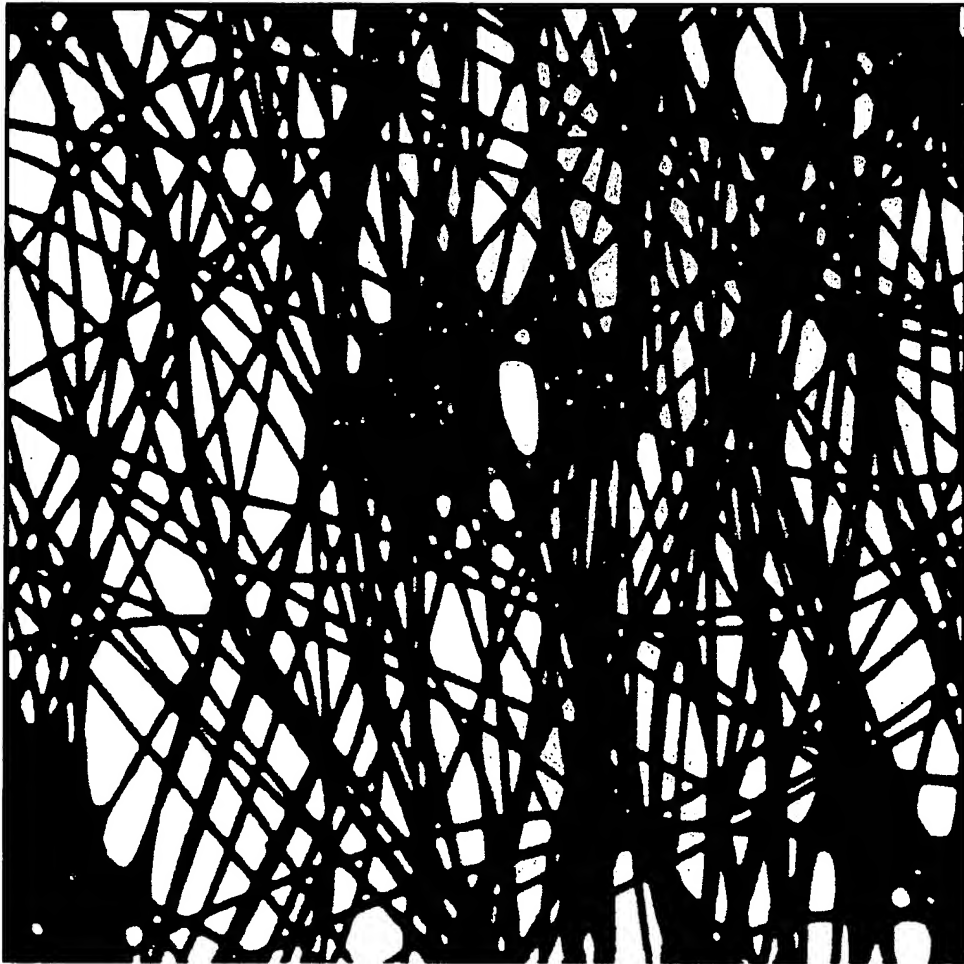


FIG. 3

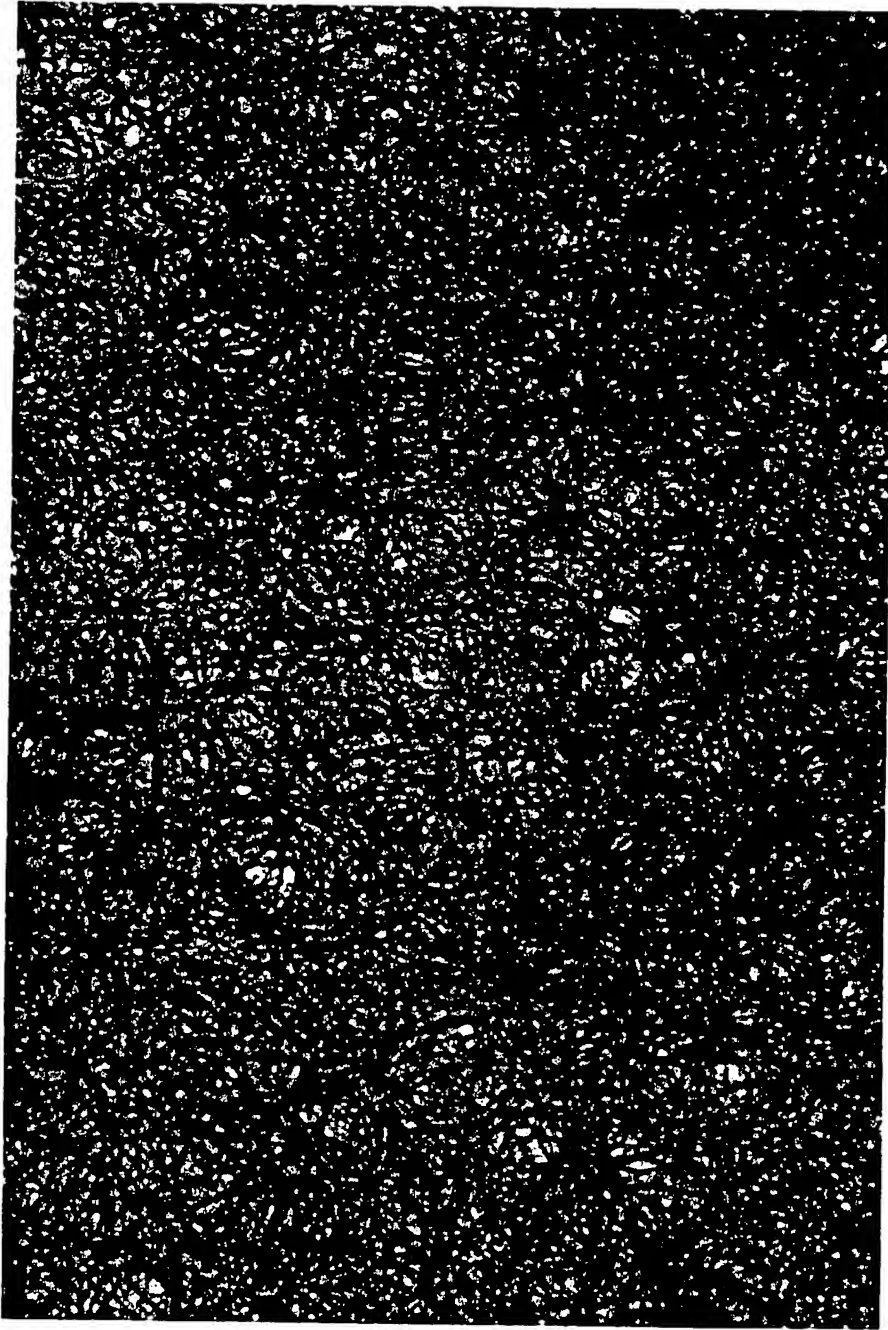
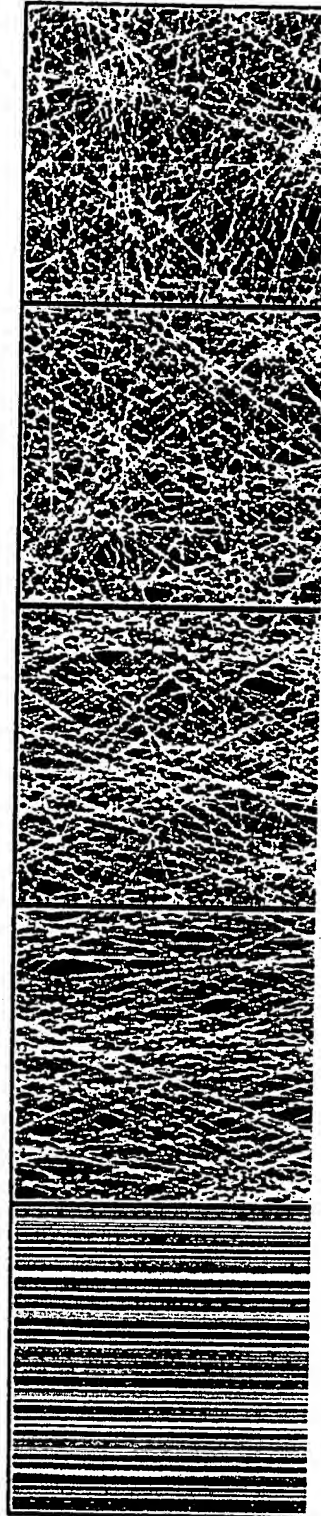
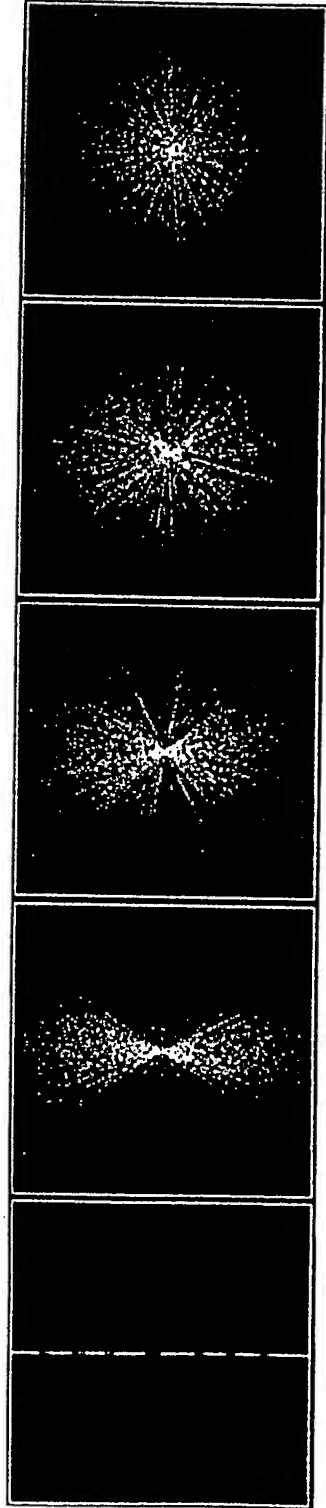


FIG. 4



Title: OPTICAL METHOD FOR EVALUATING
 SURFACE AND PHYSICAL PROPERTIES OF
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 Applicant: Pourdeyhimi
 Atty Docket: 297/180



| | | | | | | | | |
|--------|------|--------|------|--------|------|--------|------|--------|
| Mean | = 90 | Mean | = 90 | Mean | = 90 | Mean | = 90 | Random |
| Stddev | = 0 | Stddev | = 15 | Stddev | = 30 | Stddev | = 45 | |

FIG. 5A FIG. 5B FIG. 5C FIG. 5D FIG. 5E

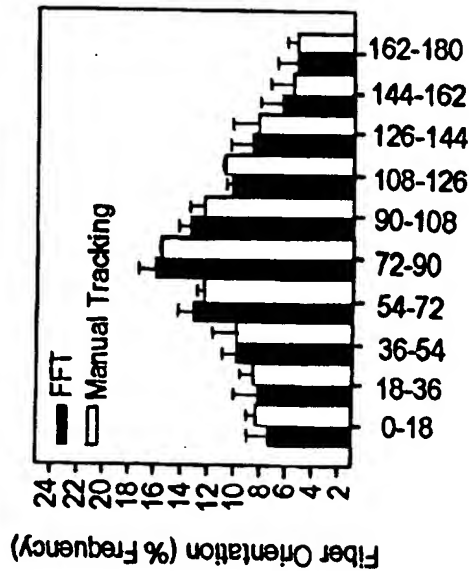
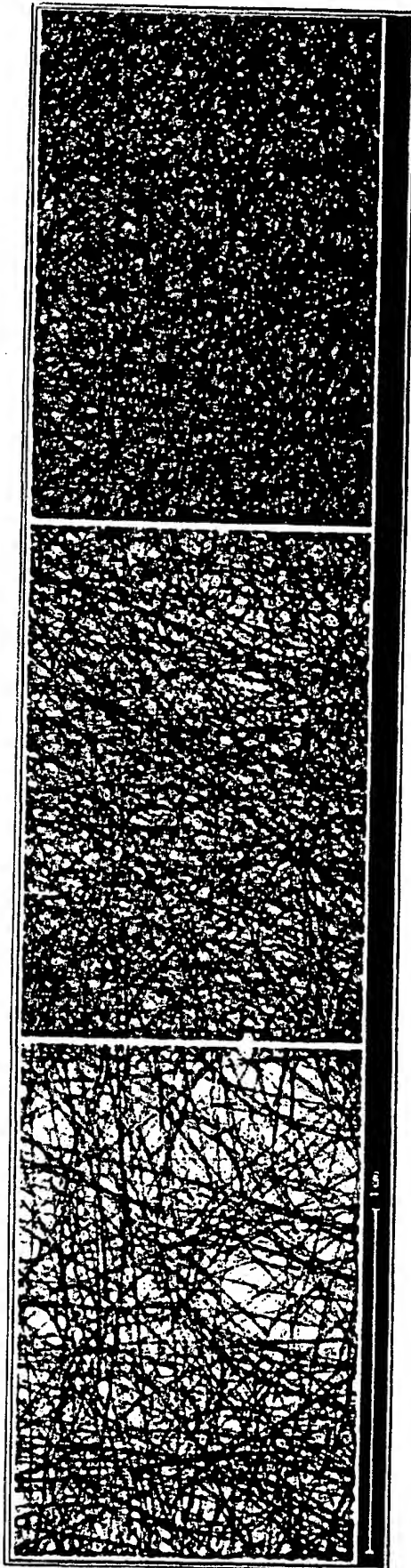


FIG. 6A

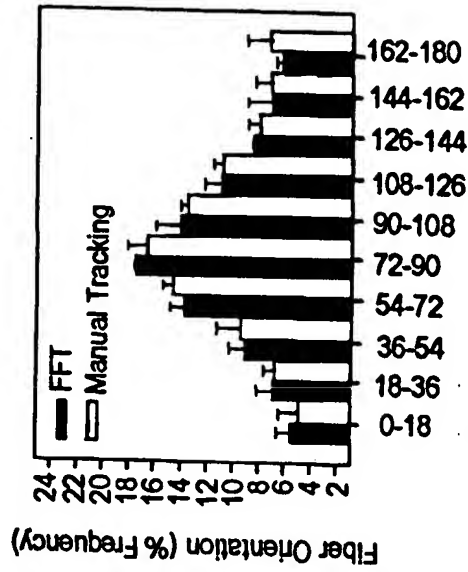


FIG. 6B

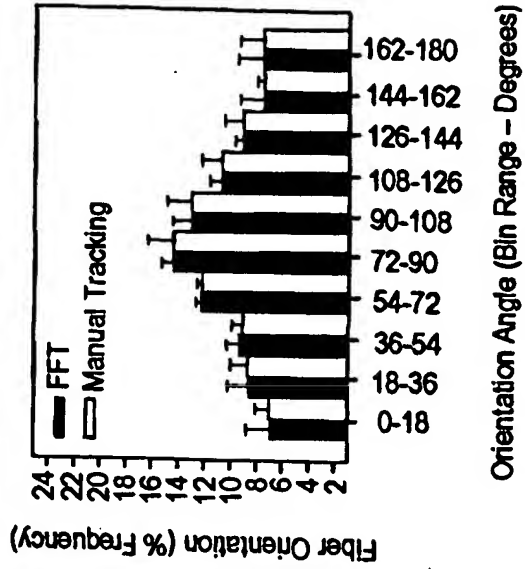
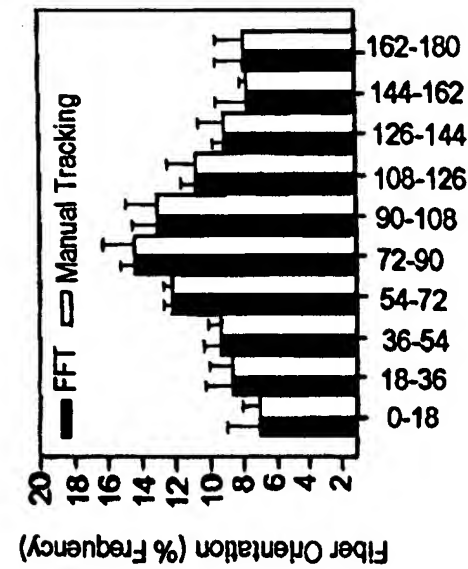
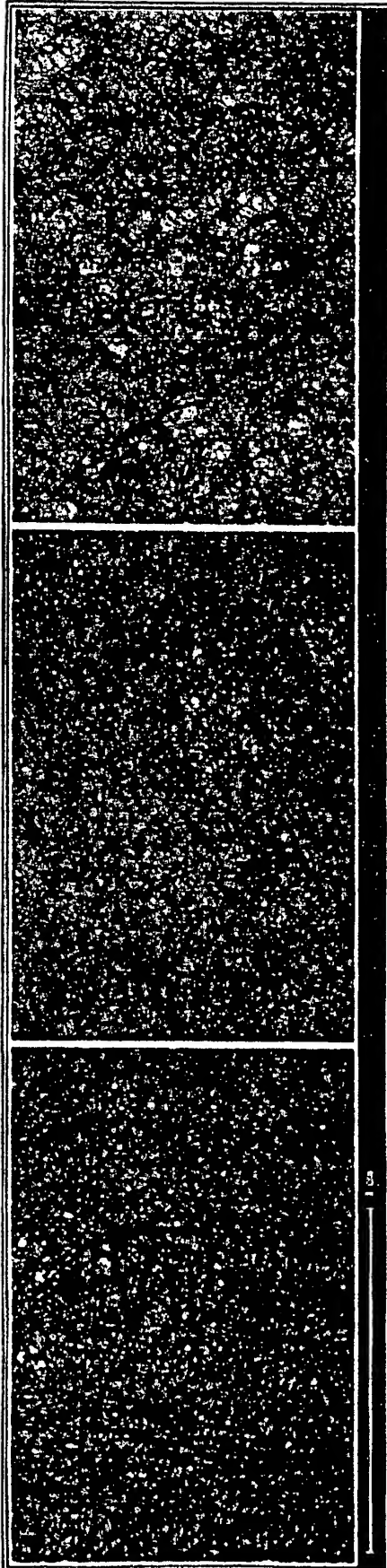
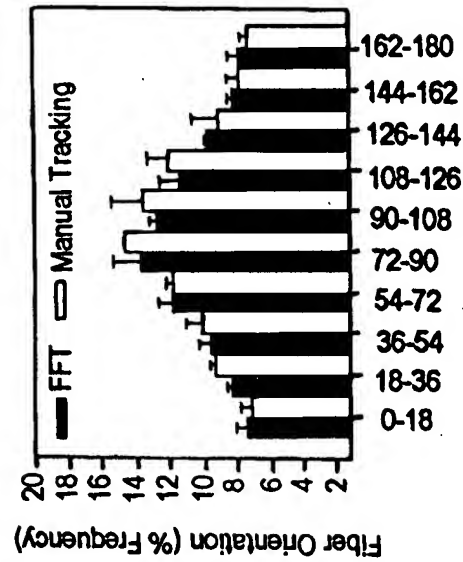


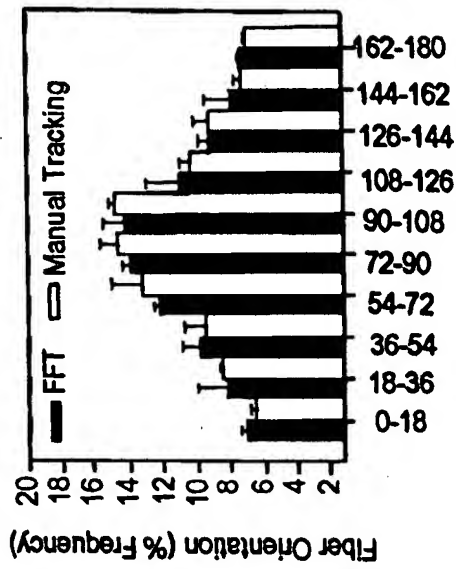
FIG. 6C



Orientation Angle (Bin Range - Degrees)



Orientation Angle (Bin Range - Degrees)



Orientation Angle (Bin Range - Degrees)

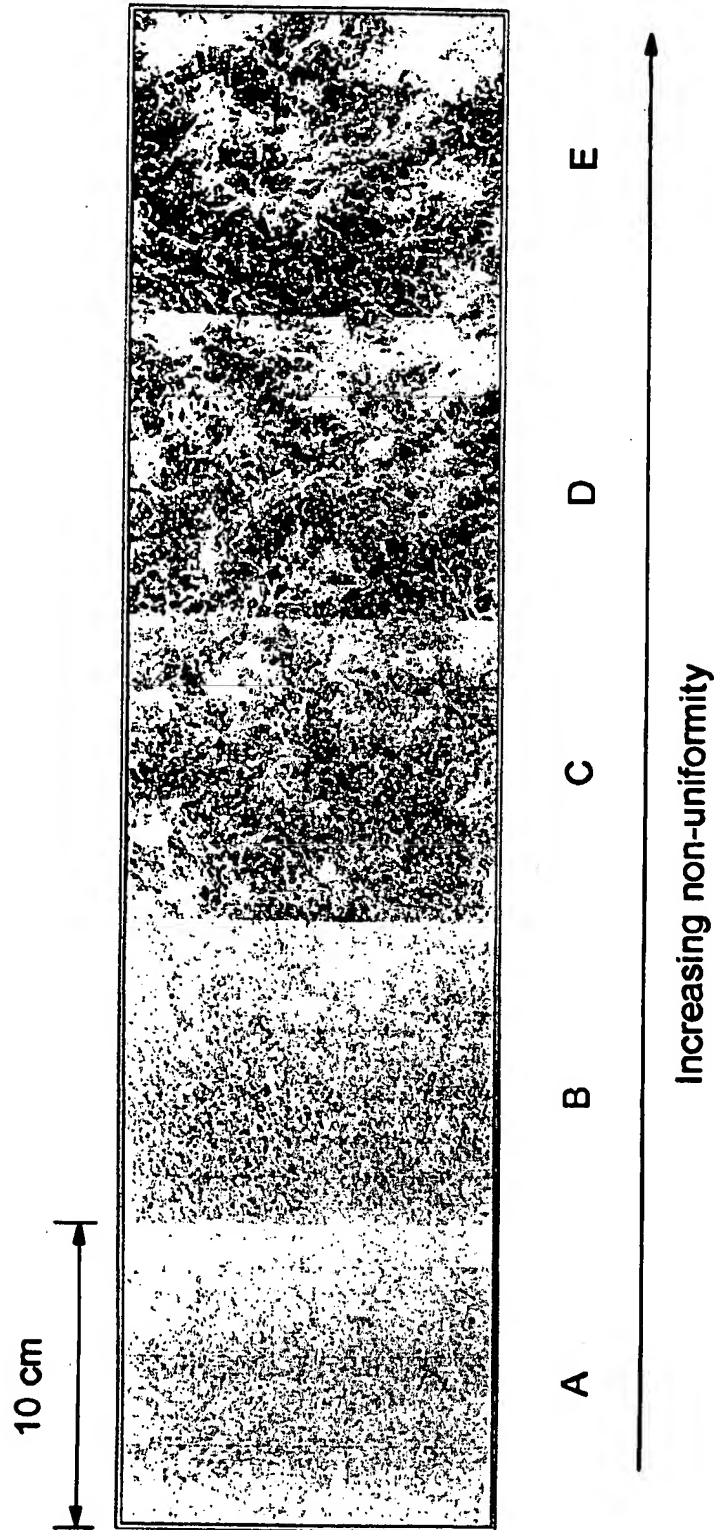


FIG. 8

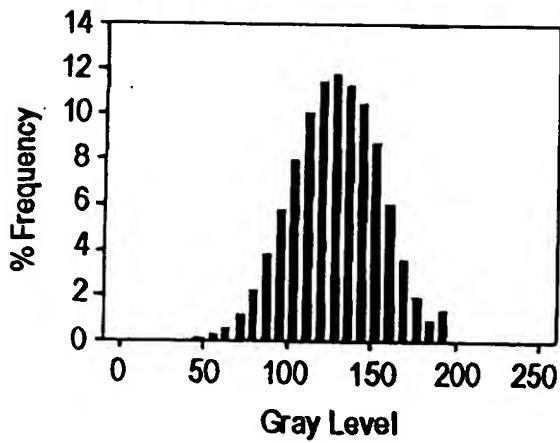


FIG. 9A

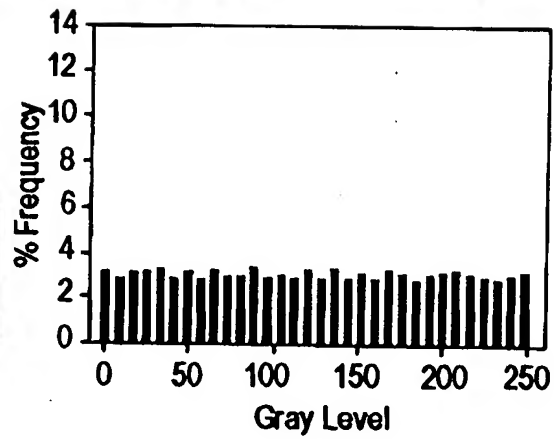
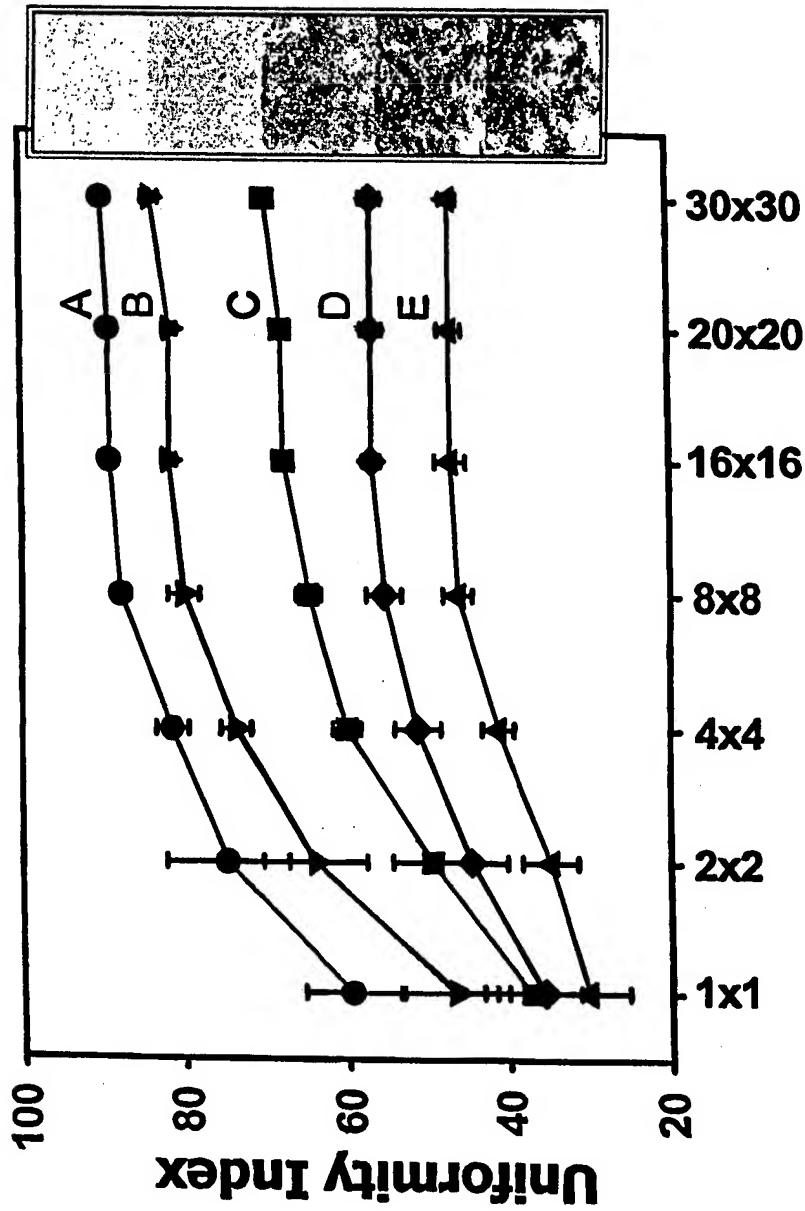


FIG. 9B



Sample Size (cm²)

FIG. 10

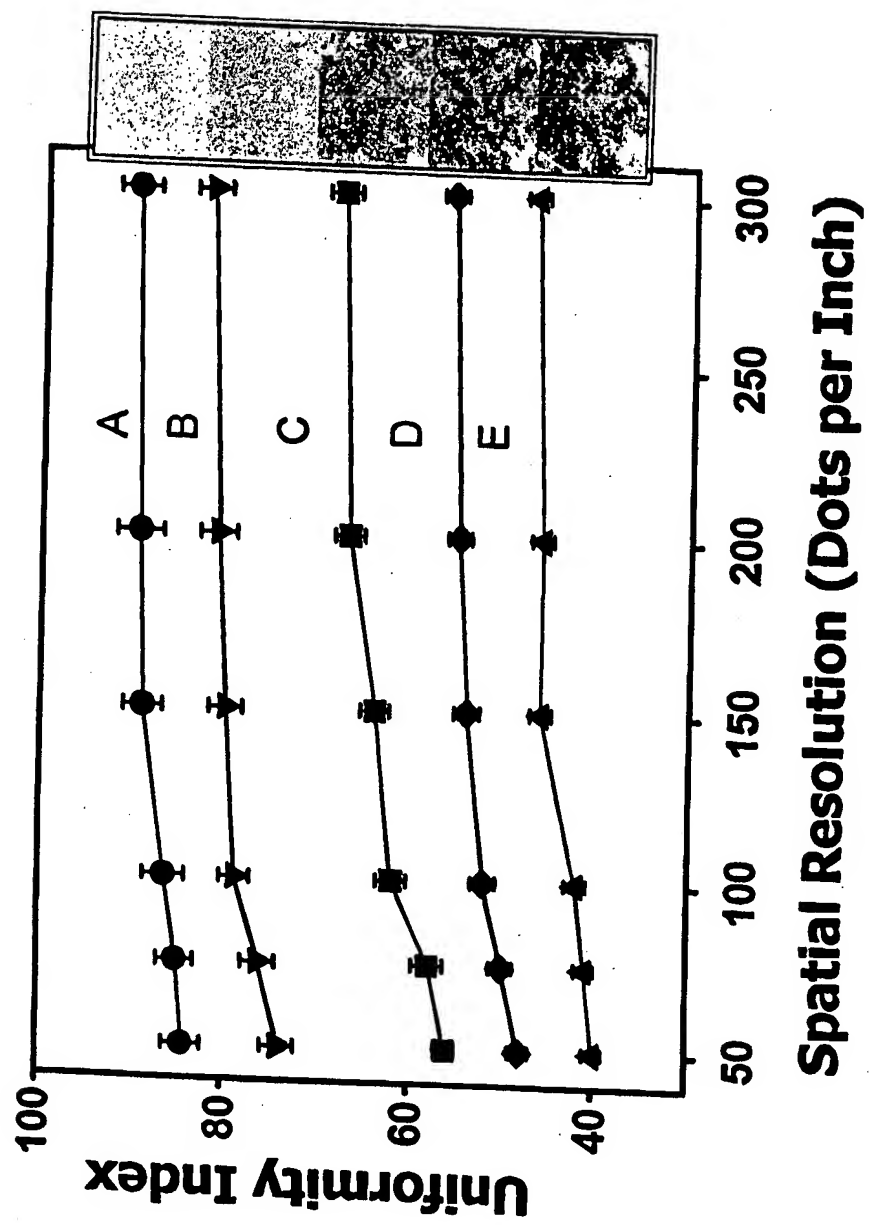
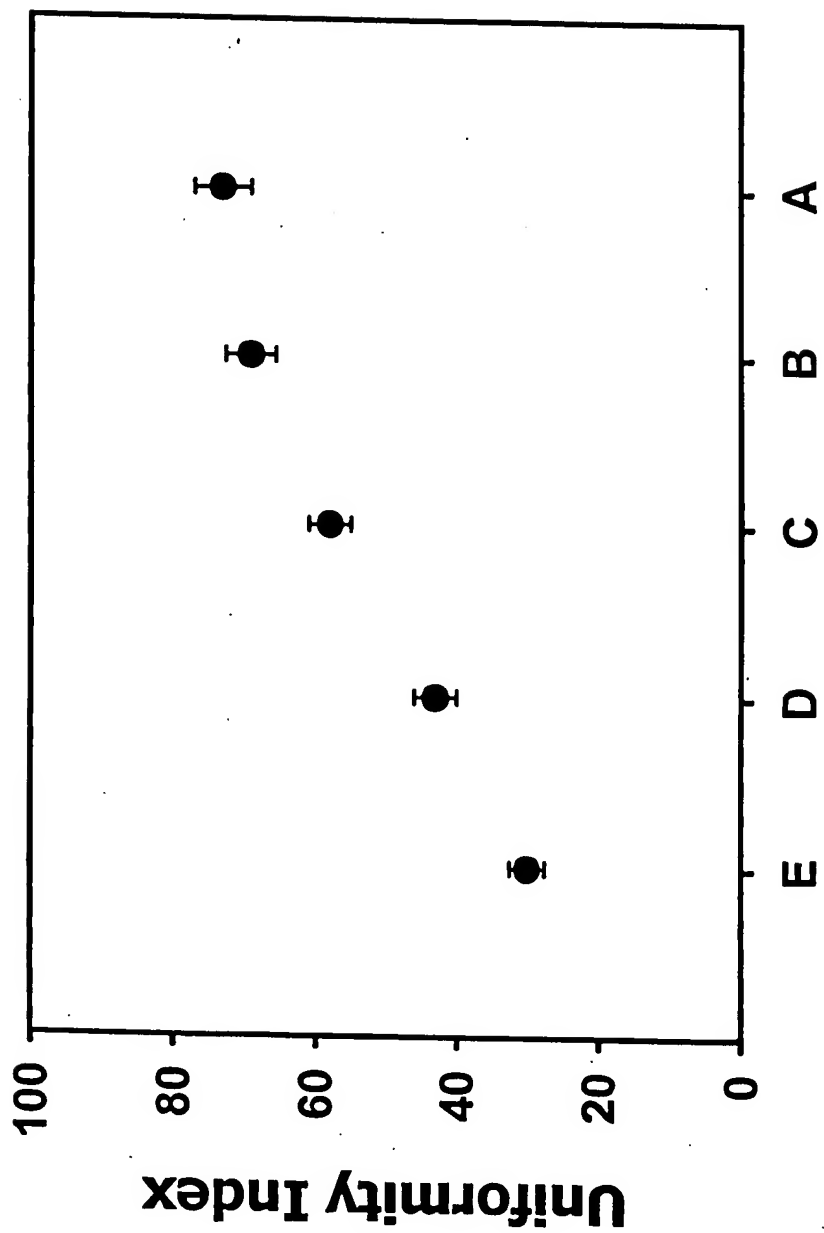


FIG. 11



Samples

FIG. 12

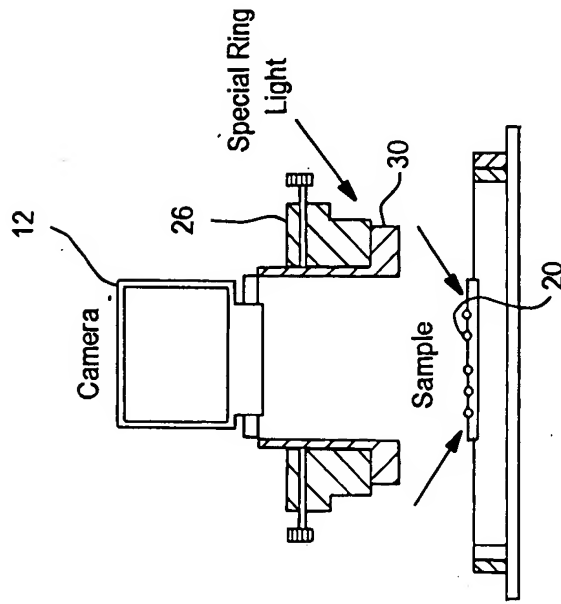


FIG. 13B

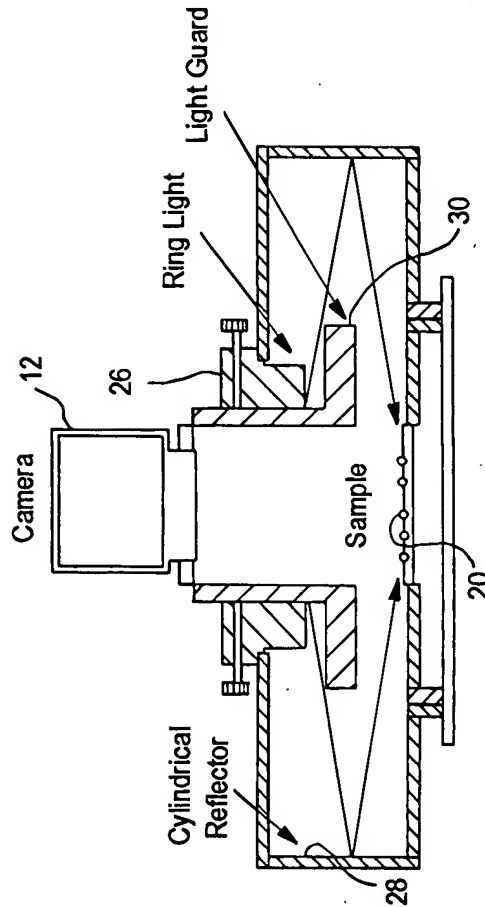


FIG. 13A

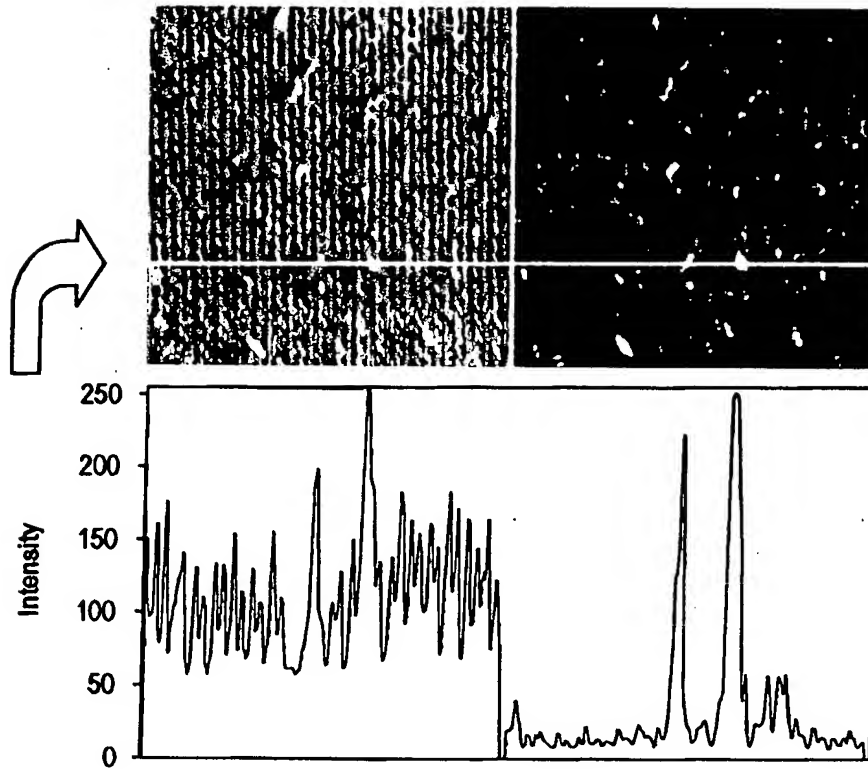


FIG. 14

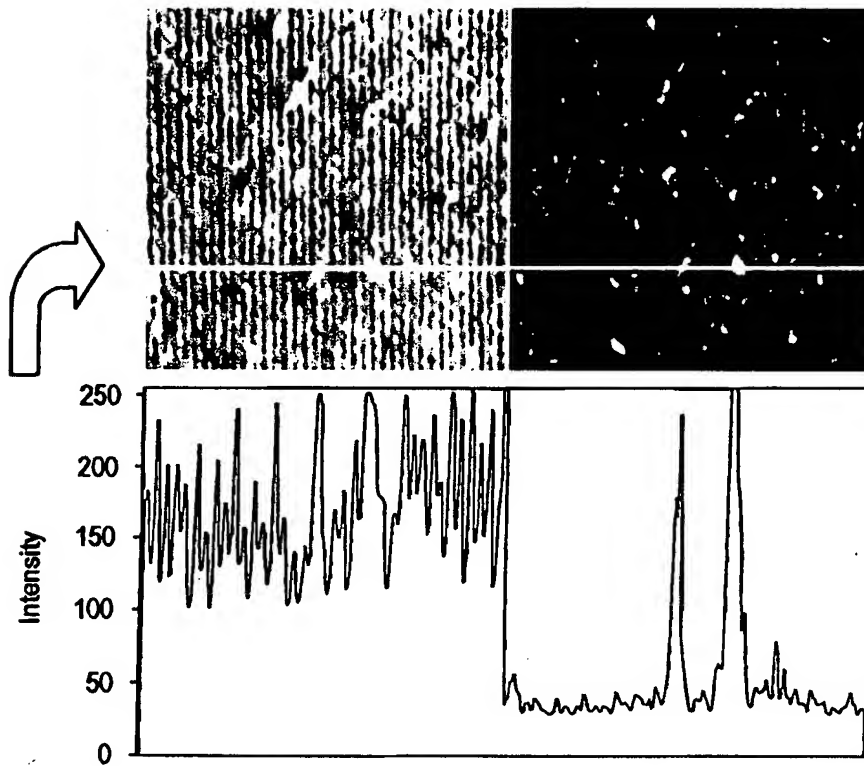
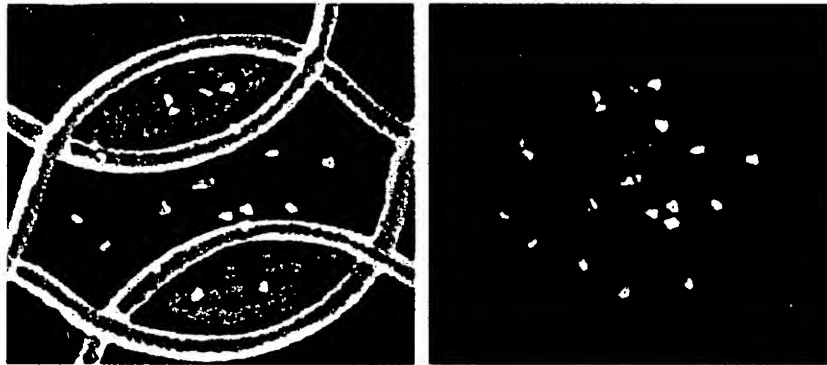


FIG. 15



Diffuse

Cylindrical

FIG. 16

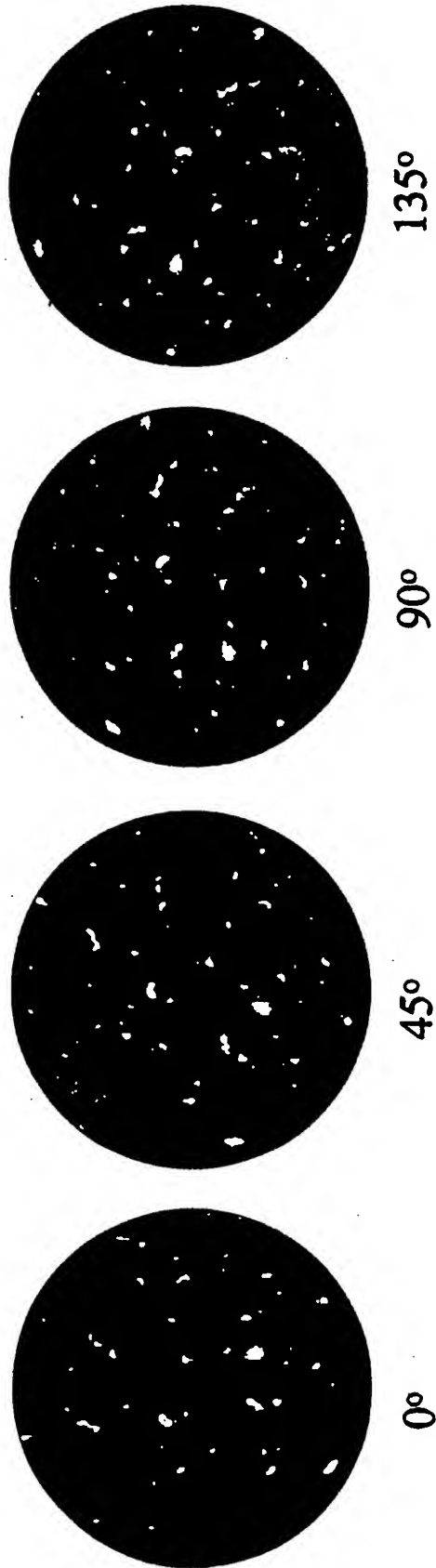


FIG. 17

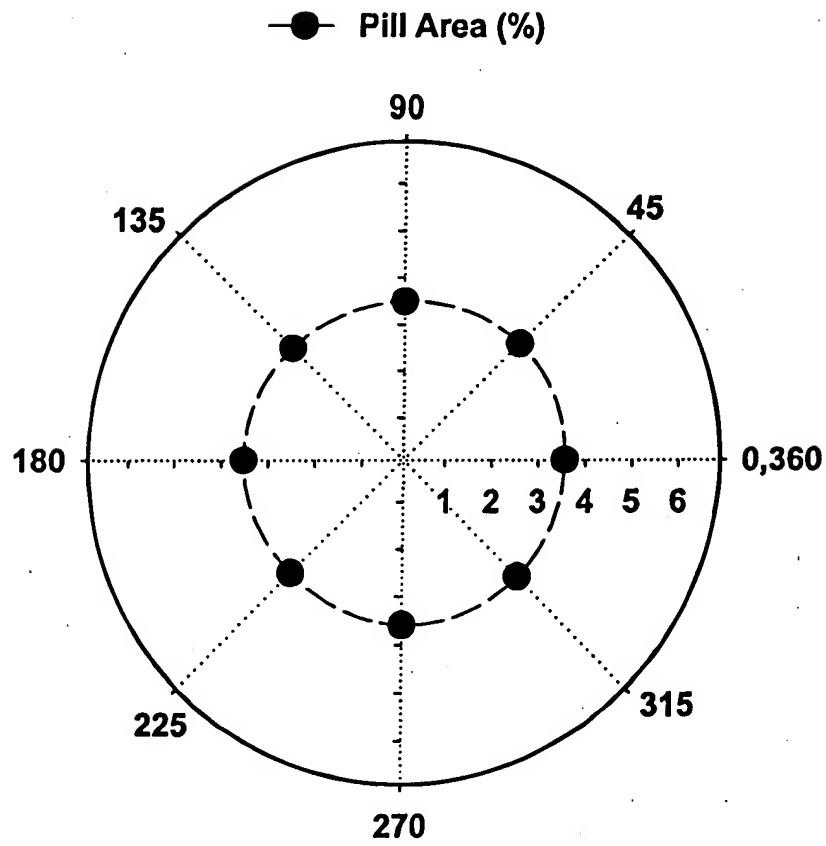


FIG. 18

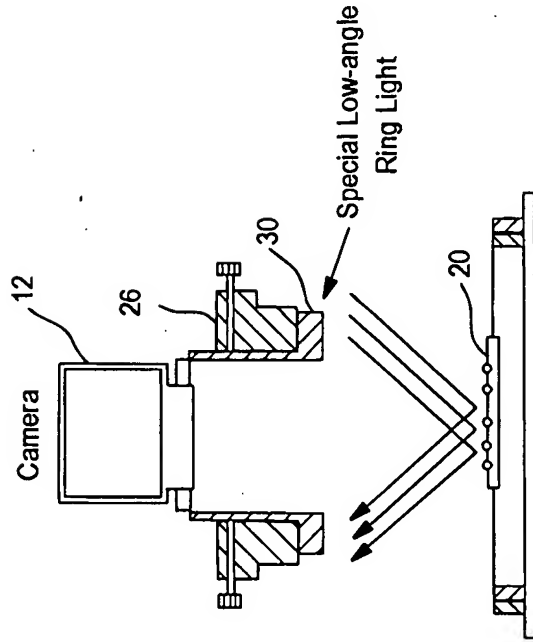


FIG. 19B

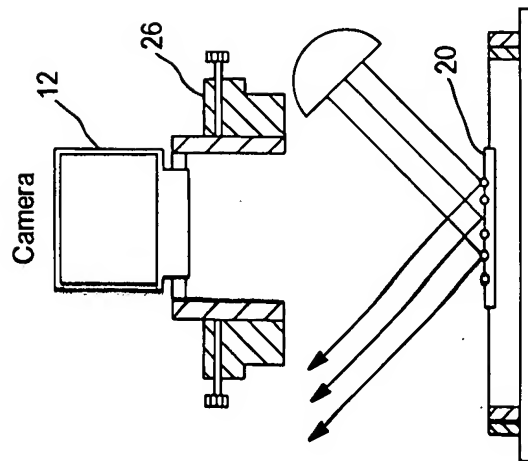


FIG. 19A

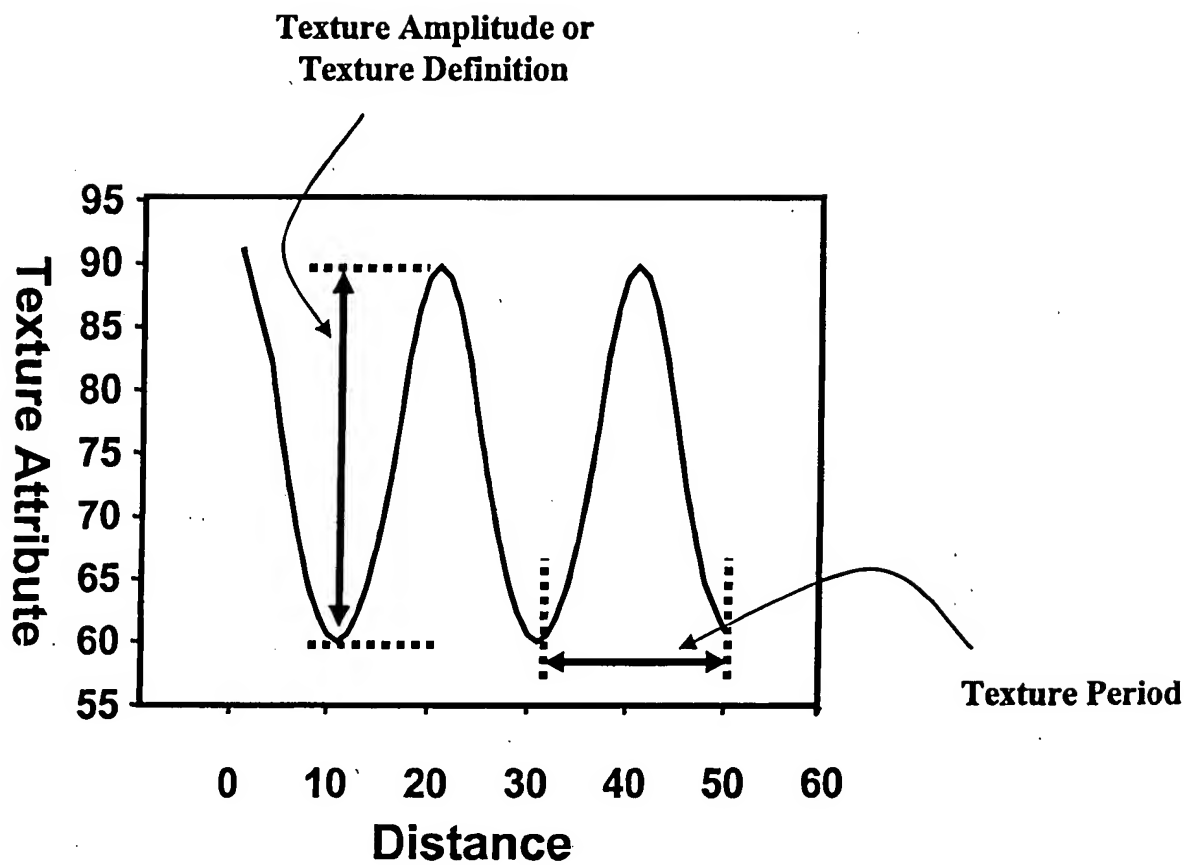


FIG. 20

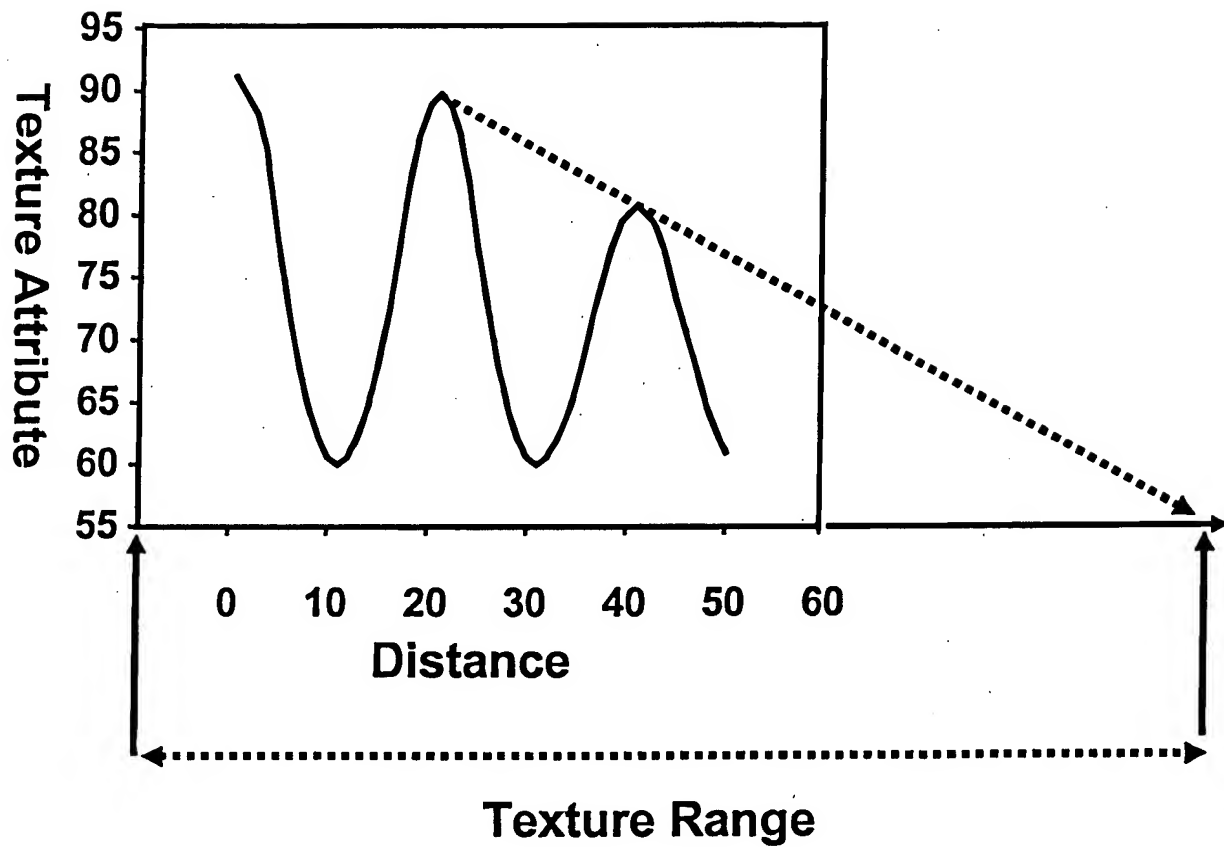


FIG. 21

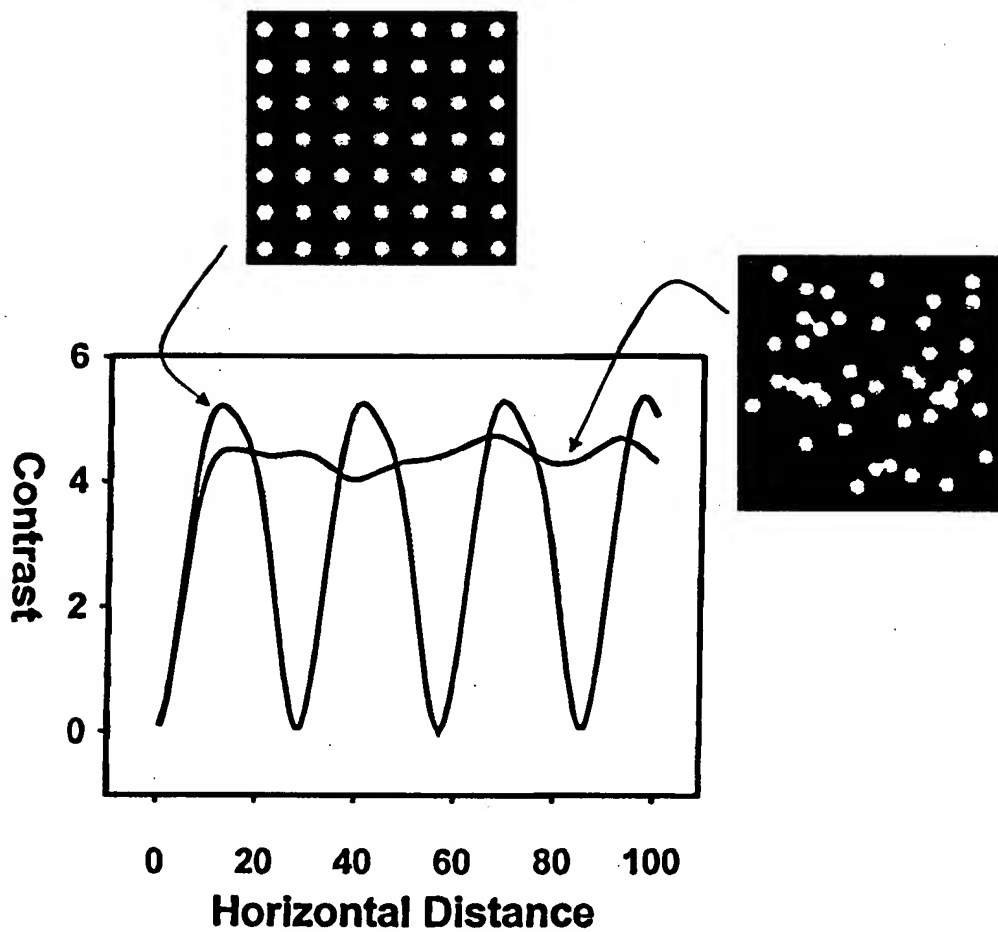


FIG. 22

$\text{Texture Period} = 2\pi / kF$
 $F = \text{Estimated Frequency}$
 $K = \text{Distance}$

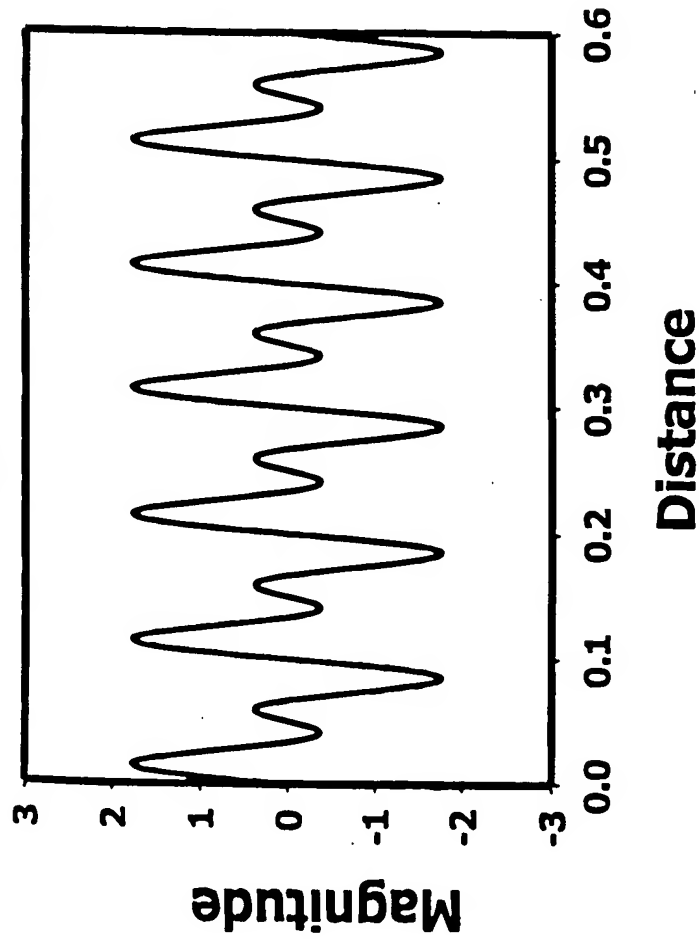


FIG. 23A

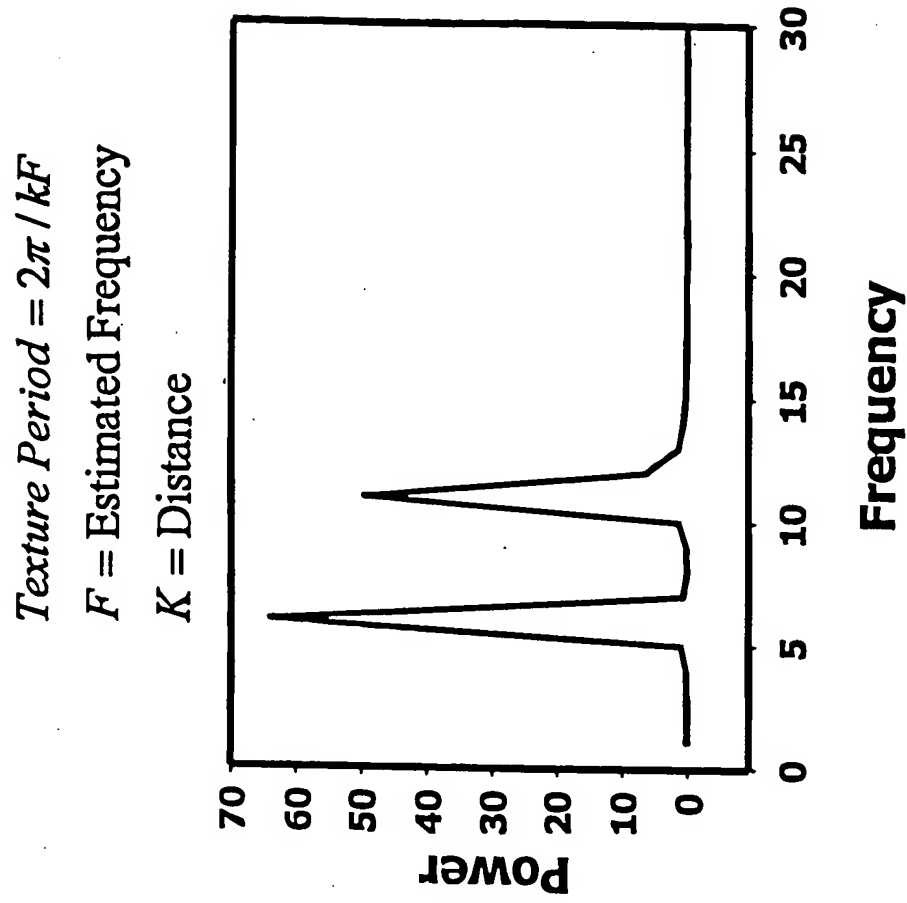


FIG. 23B

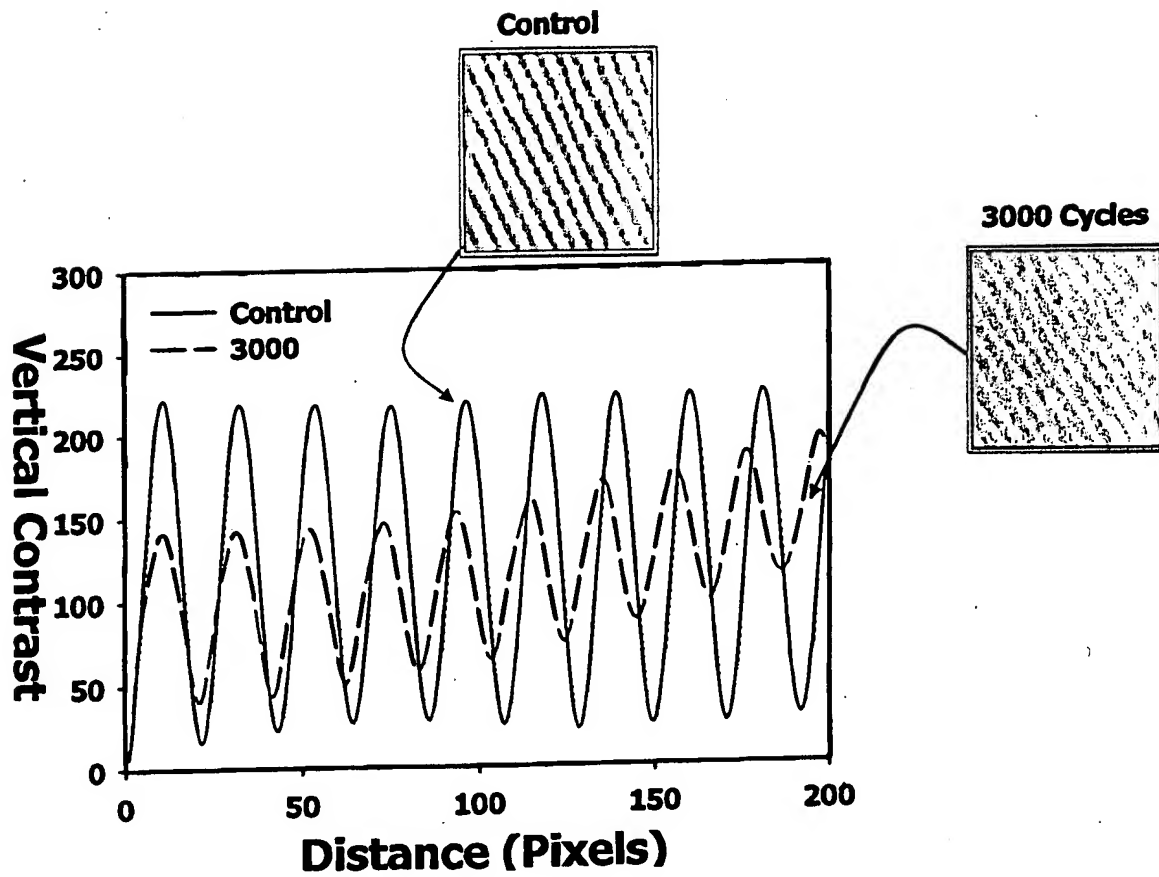


FIG. 24